

Atmospheric Electricity Interfering with Telegraphic Communication.—Ft. Keogh, 31st, lighting very vivid and almost continuous, but no audible thunder, had to cut out instruments. Deadwood, 24th, 25th, 26th; Ft. Griffin, 24th, 25th; Jacksboro, 3d, 4th, 11th, 26th to 28th; Eagle Pass, 4th, 5th, 7th, Castroville, 5th to 7th, 17th, 18th, 28th, 29th; San Antonio, 28th, 29th; Ft. McKavett, 3d, 17th, 18th; Brackettville, 3d, 4th, 5th, 7th, 18th; Ft. Elliott, 12th; Mt. Washington, 10th.

Ground Currents.—Dayton, Wash. Ty., 30th; Deadwood, 23d.

Auroras.—No auroral manifestation of particular importance was observed during the month, save, perhaps, that of the 15th, which extended from northern Michigan to southwestern Dakota, and northward to Manitoba, five intervening stations reporting. The display began about 9 p. m. and ended between 10.30 and 11 p. m. The following were local displays: Woodstock, Vt., 9th, 3 a. m., seen through broken clouds. New Haven, 24th, 7.30 to 9 p. m., was seen in the northeast, altitude 30°. Rochester, 12th, 11.40 p. m. to 2 a. m. of the 2d, at times flashes of light would illumine the heavens, alternating with heavy darkness, produced by the interference of clouds; no segment visible. Alpena, 4th, from 8.10 to 8.50 p. m., diffuse light, without streamers; 16th, 8.15 to 10.30 p. m., faint beams, altitude from 15° to 40°, width about 1°, apparently moving from west to east; 18th, 8 to 9.15 p. m., diffuse light, without streamers. Cresco, Ia., 16th, 9.25 to 10 p. m., faint beams between north and northeast. Mission House, Wis., 15th, 24th and 28th, very dim, altitude about 30°, no cloud below arch.

Zodiacal Light.—Wabash, Ind., 16th; Cresco, Ia., 15th and 16th; Clinton, Ia., 14th, 15th, 16th and 17th; Monticello, Ia., 15th, 17th, 19th and 22d; Clear Creek, Neb., 16th and 24th; Atco, N. J., 15th, 26th, 28th and 29th; Nashville, 15th, 17th, 19th, 20th, 26th, 27th and 28th.

OPTICAL PHENOMENA.

Solar halos have been observed in the various districts on the following dates: New England, 1st to 5th, 12th to 14th and 29th. Middle Atlantic States, 1st to 5th, 11th and 12th. South Atlantic States, 11th, 25th and 30th. Florida, 20th and 31st. Eastern Gulf States, 4th, 7th and 19th. Texas, 15th. Ohio valley and Tennessee, 1st, 3d to 6th, 10th, 12th, 13th, 20th, 21st and 24th. Upper Lake region, 1st to 4th, 6th, 9th, 11th and 12th. Lower Lake region, 1st, 2d and 5th. Upper Mississippi valley, 3d, 5th, 10th, 20th, 21st, 24th and 26th. Middle Slope, 3d to 6th, 9th, 13th, 24th and 27th. Middle Plateau district, 4th to 8th, 14th, 24th and 29th to 31st. Northern Plateau district, 1st to 3d, 7th, 10th to 12th, 20th, 23d, 29th and 31st. Northern Pacific Coast region, 2d, 6th, 10th, 11th, 17th, 18th, 20th and 29th, 30th. California, 2d, 4th, 7th, 11th, 15th, 19th, 20th, 23d, 26th, 29th and 30th.

Lunar halos have been observed in the various districts on the following dates: New England, 5th, 8th and 11th. Middle Atlantic States, 3d, 4th, 7th, 8th, 10th to 13th, 29th and 31st. South Atlantic States, 12th and 13th. Eastern Gulf States, 3rd, 4th, 6th, 7th and 10th. Western Gulf States and Texas, 3d to 9th, 11th to 13th and 31st. Ohio valley and Tennessee, 3d to 6th, 8th, 12th and 13th. Lower Lake region, 1st, 4th, 6th, 8th, 10th and 31st. Upper Lake region, 1st to 4th, 12th. Upper Mississippi valley, 5th, 6th, 7th, 10th, 13th and 14th. Lower Missouri valley, 6th and 16th. Southern Plateau, 3d, 4th, 5th, 7th, 8th and 9th. Northern Pacific Coast region, 3d, 6th and 22d. California, 4th, 7th, 11th and 15th.

Polar Bands.—New Corydon, Ind., 3d; Gardiner, Me., 1st; Fayette, Miss., 12th; Almota, Wash. Ty., 17th; Memphis, 12th.

Mirage.—Indianola, 14th, 15th, 17th, 19th and 31st. Milwaukee, 18th, very beautiful, was witnessed over Lake Michigan; ships could be seen, apparently sailing in the sky with masts pointed downward. The distance of the vessels must have been great, but the reflection showed them as plainly as if they had been in close proximity. New Haven, 12th, very beautiful, magnifying the vessels at anchor: the hull of an incoming brig appeared in the distance 40 feet high.

MISCELLANEOUS PHENOMENA.

Meteors.—Almota, Wash. Ty., 18th. Boise City, 3rd. Ft. Stevenson, 2d, very brilliant observed about 8 p. m. in the southern heavens; first appeared about 5° above the horizon and inclined south and downward; its flight lasted about 5 seconds, leaving a faint train; in size, it was apparently, nearly equal to that of the full moon. Fredericksburg, Tex., 22d, 10:10 p. m., altitude 45°, direction from northwest to southeast; as it passed along it gave a light much brighter than the stars, leaving a trail of dark blue color and exploded apparently into three balls of fire. Davenport, 22d. Washington, D. C., 9th, 9:45 p. m., appeared 45° above southeastern horizon, pursued a northwesterly course through zenith; extent of its visible path was about 20°. Wood's Holl, 3d, 2:10 a. m., from east to west. Woodstock, Md., 17th, 9 p. m.; 23d, 9 p. m., from southeast to northwest; 24th, 8:35 p. m., from west to east. Williams-town and Fall River, Mass., 13th. Thornville, Mich., 27th. Fayette, Miss., 1st. Atco, N. J., 22d, 24th. North Volney, N. Y., 23d. Waterburg, N. Y., 2d. Little Mountain, Ohio, 7th. Mission House, Wis., 2d.

Earthquakes.—La Salle, Ill., 25th, during the night a slight shock was distinctly felt in the manufacturing area, between the bluffs and the canal, in the southwestern part of the city. Six fissures, measur-